

CURRICULUM VITAE
DANIEL BEENE, PHD, MS

PROFESSIONAL DATA

dbeene1@jh.edu

<https://dbeene.github.io>

he/him/his

EDUCATION AND TRAINING

PhD 2024 University of New Mexico, Geography & Environmental Studies
Dissertation: Critical Geospatial Data Science: Considerations for Curating,
Analyzing, and Sharing Geospatial Data
Advisor: Yan Lin, PhD

MS 2019 University of New Mexico, Geography & Environmental Studies

Postdoctoral Training

2024-2026 Epidemiology, Johns Hopkins Bloomberg School of Public Health

PROFESSIONAL EXPERIENCE

Johns Hopkins University

Assistant Scientist, Epidemiology, 2026 – present
Johns Hopkins Bloomberg School of Public Health

Postdoctoral Fellow, Epidemiology, 2024 – 2026
Johns Hopkins Bloomberg School of Public Health

Other Non-JHU Professional Experience

Instructor of Geography January 2026 – December 2026
Department of Geography & Environmental Studies, New Mexico State University

Affiliate Faculty September 2024 – present
College of Pharmacy, University of New Mexico Health Sciences Center

Data Manager June 2019 – August 2024
College of Pharmacy, University of New Mexico Health Sciences Center

PROFESSIONAL ACTIVITIES

Society Membership and Leadership

American Association of Geographers, 2018-Present

Southwest Division, American Association of Geographers, 2018-2024

Gamma Theta Upsilon, 2021-2024

New Mexico Geographic Information Council, 2015-2023

Association of Pacific Coast Geographers, 2019-2020

Participation on Advisory Panels and Boards

Advisory Board, Tribal Climate Health Project Water Supply Working Group, 2025-present

EDITORIAL AND OTHER INVITED PEER REVIEW ACTIVITIES

Journal Peer Review Activities

Journal of Rural Studies, 2026

Canadian Geographies, 2026

AWWA Water Science, 2025

Paediatric & Perinatal Epidemiology, 2025

Journal of Exposure Science and Environmental Epidemiology, 2023, 2024

Food Security, 2021

Cogent Social Sciences Journal, 2020

Peer Review of Reports and Other Documents

ECHO Publications Committee, 2026 – present

Grant Reviews

Opportunities and Innovation Fund (OIF) Cycle 2 Round 4, ECHO Data Analysis Center consultation, 2026

HONORS AND AWARDS

Honors

University of New Mexico Department of Geography & Environmental Studies Master's Thesis Distinction, 2019

University of New Mexico Department of Geography & Environmental Studies Outstanding Graduate Student, 2019

Awards

Navajo WaterGIS Usability and Needs Assessment: Environmental Data Justice and Data Bias. Co-Investigator (authored grant application), Award amount: \$26,303, New Mexico Integrative Science Program Incorporating Research in Environmental Science (NM-INSPIRES) pilot project sub-award (NIEHS 1P30ES032755), 2023

2023 I-GUIDE Summer School Team Project Award: Investigating Hydrological Responses and Shrinkage Patterns of the Great Salt Lake. Selected in juried competition. University Consortium of Atmospheric Research, Boulder, CO., 2023

2022 Sobel Duncan Science for Health of Indigenous Populations (SHIP) Award, University of New Mexico College of Arts & Sciences, 2022

Conrad Snead Scholarship, University of New Mexico Department of Geography & Environmental Studies, 2019

Austrian Marshall Plan Scholarship, Visiting Fellow, Carinthia University of Applied Sciences, Villach, AT, 2017

Named Lectureships

Measuring rurality: Limits and challenges in population health studies. Marshfield Clinic Research Institute Scientific Seminar Series. Marshfield, WI, November 12, 2025.

Underserved or misunderstood? Exploring rurality through critical geospatial data science. University of New Mexico Department of Geography & Environmental Studies Colloquium. Albuquerque, NM, October 18, 2024.

Advancing Indigenous Health Equity: GIScience & geographies of Indigenous health. Science for Health of Indigenous Populations (SHIP) Symposium. University of New Mexico, Albuquerque, NM. April 8, 2022.

PUBLICATIONS

* indicates student or post-doctoral fellow was mentored for the published work

Journal Articles

1. **Beene, D.**, MacKenzie, D., Camargo Jr., C.A., Chehab, R.F., Elliott, A., Gao, G., Hirko, K.A., Karagas, M.R., Keim, S.A., McCormack., L.A., Peterson, A.K., Sadeghi, H., Towe-Goodman, N., Kress, A.M. (2026). Challenges associated with rural-urban stratification for generalizing birth outcomes: Insights from the ECHO Cohort. *Journal of Rural Health*. <https://doi.org/10.1111/jrh.70163>
2. Feric, Z., **Beene, D.**, Signes-Pastor, A., Watkins, D., Karagas, M., MacKenzie, D., Kaeli, D., Manjourides, J. (2026). Effects of maternal arsenic exposure on birth outcomes using harmonized data across three birth cohorts. *Journal of Toxicology and Environmental Health*. <https://doi.org/10.1007/s13530-025-00292-6>
3. Lin, Y., **Beene, D.**, Woldeyohannes, T., Liu, Z., Tatman, W., Lister, A., Gong, X., Gay-Antaki, M., Ingram, J., Hoover, J. (2026). Practicing community-based research in GIScience and geography – a case study with an Indigenous community, best practices, challenges, and lessons learned. *Cartography and Geographic Information Science*. <https://doi.org/10.1080/15230406.2025.2540843>
4. Lardier, D., **Beene, D.**, Lin, Y., Kincaid, T., Bonham, C. (2025). Accessibility to behavioral healthcare providers and reliable telecommunications in New Mexico. *Journal of Rural Mental Health*. <https://doi.org/10.1037/rmh0000321>
5. Nigra, A. E., Bloomquist, T. R., Rajeev, T., Burjak, M., Casey, J. A., Goin, D. E., ... **Beene, D.**, et al. (2025). Public Water Arsenic and Birth Outcomes in the Environmental Influences on Child Health Outcomes Cohort. *JAMA Network Open*, 8(6), e2514084. <https://doi.org/10.1001/jamanetworkopen.2025.14084>
6. **Beene, D.**, Lin, Y., Hoover, J. H., Shi, X. (2025). Deconstructing rurality to better “place” health data. *International Journal of Geographical Information Science*, 1-28. <https://doi.org/10.1080/13658816.2025.2482718>
7. McCormack, L. A., MacKenzie, D. A., Deutsch, A., **Beene, D.**, Hockett, C. W., Ziegler, K., Knapp, E. A., Kress, A. M., Li, Z. R., Bakre, S., Habre, R., Jacobson, L., Karagas, M. R., LeWinn, K., Nozadi, S. S., Alshawabkeh, A., Aris, I. M., Bekelman, T. A., Bendixsen, C. G., Camargo, C., Cassidy-Bushrow, A. E., Croen, L., Assiamira, F., Fry, R., Gebretsadik, T., Hartert, T., Hirko, K. A., Karr, C. J., Kloog, I., Loftus, C., Magee, K. E., McEvoy, C., Neiderhiser, J. M., O'Connor, T. G., O'Shea, M., Straughen, J. K., Urquhart, A., Wright, R., Elliott, A. J. (2025). A descriptive examination of rurality in the Environmental influences on Child Health Outcomes Cohort: Implications, illustrations, and future directions. *The Journal of Rural Health*, 41(1), ee12908. <https://doi.org/10.1111/jrh.12908>
8. **Beene, D.**, Miller, C., Gonzales, M., Kanda, D., Francis, I., Erdei, E. (2024). Spatial nonstationarity and the role of environmental metal exposures on COVID-19 mortality in New Mexico. *Applied Geography*, 121, 103400. <https://doi.org/10.1016/j.apgeog.2024.103400>.
9. Levin, R., Villanueva, C. M., **Beene, D.**, Cradock, A. L., Donat-Vargas, C., Lewis, J., Martinez-Morata, I., Minovi, D., Nigra, A. E., Olson, E. D., Schaidler, L. A., Ward, M. H., & Deziel, N. C. (2023). US drinking water quality: Exposure risk

- profiles for seven legacy and emerging contaminants. *Journal of Exposure Science & Environmental Epidemiology*, 31(1), 3-22.
<https://doi.org/10.1038/s41370-023-00597-z>.
10. Giralmo, C., Lin, Y., Hoover, J., **Beene, D.**, Woldeyohannes, T., Liu, Z., Campen, M.J., MacKenzie, D., Lewis, J. (2023). Meteorological data source comparison – a case study in geospatial modeling of potential environmental exposure to abandoned uranium mine sites on Navajo Nation. *Environmental Monitoring and Assessment*, 195:834. <https://doi.org/10.1007/s10661-023-11283-w>.
 11. Lardier Jr., D.T., Blackwell, M., **Beene, D.**, Lin, Y. (2023). Social vulnerabilities and spatial access to primary healthcare through car and bus systems: Assessing disparities through Geographic Information Systems (GIS) and Multi-Level Modeling (MLM). *Journal of Rural Health*, 100, 88-102.
<https://doi.org/10.1007/s11524-022-00701-y>
 12. Gong, X., Lu, Y., **Beene, D.**, Li, Z., Hu, T., Morgan, M., & Lin, Y. (2022). Understanding public perspectives on fracking in the United States using social media big data. *Annals of GIS*, 1-15.
<https://doi.org/10.1080/19475683.2022.2121856>
 13. **Beene, D.**, Zhang, S., Lippitt, C., Bogus, S.M. (2022). Performance evaluation of multiple pan-sharpening techniques: a statistical perspective. *Geographies*, 2(3), 435-452. <https://doi.org/10.3390/geographies2030027>
 14. **Beene, D.**, Collender, P., Cardenas, A., Harvey, C., Huhmann, L., Lin, Y., Lewis, J., Loiacono, N., Navas-Acien, A., Nigra, A., Steinmaus, C., van Geen, A. (2022). A mass-balance approach to evaluate arsenic intake and excretion in different populations. *Environment International*, 166, 107371.
<https://doi.org/10.1016/j.envint.2022.107371>
 15. Liu, Z., Lin, Y., Hoover, J., **Beene, D.**, (2022). Individual exposure assessment for livestock based on spatial-temporal analysis of GPS data and behavior patterns classification in Cove Wash Watershed, Arizona. *Annals of GIS*.
<https://doi.org/10.1080/19475683.2022.2075935>
 16. Feric, Z., Agostini, N.B., **Beene, D.**, Signes-Pastor, A.J., Halchenko, Y., Watkins, D., MacKenzie, D., Karagas, M., Manjourides, J., Alshawabkeh, A., Kaeli, D. (2021). A Secure and Reusable Software Architecture for Supporting Online Data Harmonization. *2021 IEEE International Conference on Big Data Virtual Conference* (refereed conference proceeding).
 17. Lin, Y., Hoover, J., **Beene, D.**, Lippitt, C. (2021). Impact of travel time uncertainties on modeling of spatial accessibility: a comparison of street data sources. *Cartography and Geographic Information Science* 48(6): 471-490.
<https://doi.org/10.1080/15230406.2021.1960609>
 18. Lin, Y., Hoover, J., **Beene, D.**, Erdei, E., & Liu, Z. (2020). Environmental risk mapping potential for abandoned uranium mine contamination on the Navajo Nation, USA, using a GIS-based multi-criteria decision analysis approach. *Environmental Science and Pollution Research* 27: 30542-30557
<https://doi.org/10.1007/s11356-020-09257-3>
 19. Ketai, L., Melendres, L. D., DuBroff, J., Lin, Y., & **Beene, D.** (2019). High Geographic Prevalence of Pulmonary Arterial Hypertension: Associations with

Ethnicity, Drug Use and Altitude. *Pulmonary Circulation* 10 (1): 2045894019894534. <https://doi.org/10.1177%2F2045894019894534>

20. **Beene, D.**, Zhang, S. & Paulus, G. (2019). Workflow for hydrologic modelling with sUAS-acquired aerial imagery. *Geocarto International*. 36(2) 1346-1364. <https://doi.org/10.1080/10106049.2019.1648562>

Books or Monographs

Chapters

Hoover, Joseph, Lin, Y., **Beene, D.**, & Liu, Z. (2020). Partnering with Indigenous Communities to Address the Environmental Health Legacy of Abandoned Mines in the Western United States. In Keables, M. J. (Ed.) *The Rocky Mountain West: A Compendium of Geographic Perspectives*. American Association of Geographers: Washington, D.C. 2020 March; :109-117.

Beene, D. R. & Lane, K. M. D. (2020). Unmappable Variables: GIS and the Complicated Historical Geography of Water in the Rio Grande Project. In Travis, C., Ludlow, F. M., & Ferenc, G. (Eds.) *Historical Geography, GIScience, and Textual Analysis: Mapping the Landscapes of Time and Place*. Berlin: Springer.

Articles, Editorials and Other Publications Not Peer Reviewed

Hoover, J., Beene, D., Chief, K. (2022). It takes a team: Tackling water quality challenges and COVID-19 in the Navajo Nation. *Water Resources IMPACT - American Water Resources Association* 24 (1):5–8.

PRACTICE ACTIVITIES

Presentations to Policymakers, Communities, and Other Stakeholders

Blue Gap/Tachee Livestock Project community map workshop, Blue Gap/Tachee Chapter, Navajo Nation. September 2023.

Cove Livestock Project progress report and community workshop, Cove Chapter Meeting, Cove Chapter, Navajo Nation. February 11, 2000.

Consultations or Collaborations with Policymakers, Community Groups, and Other Stakeholders

Water Supply Data and Tribal Health Working Group – open consultation on geospatial data quality and management for Tribal Climate Health Project, Water Supply Repository. April-May 2026.

Software and Other Product Development

Greenspace-Zonal: Calculate zone-constrained Greenspace Accessibility Index (GAI) using spatial Jupyter Notebook (Python 3)

PART II

TEACHING

Classroom Instruction

GEOG 601 – Geographic Theory and Applications, New Mexico State University. Fall 2026. Course enrollment: 6. Primary instructor.

GEOG 488/588 – GIS for Water Resources, New Mexico State University. Spring 2026. Course enrollment: 14. Primary instructor.

GEOG 195 – Introduction to Environmental Studies, University of New Mexico. Fall 2018. Course enrollment: 30. Teaching assistant.

GEOG 364 – Law & Geography: Law, Control, Human Environment, University of New Mexico. Fall 2018. Course enrollment: 24. Teaching assistant.

Other Teaching

Workshop: Getting Started with Area-Level Reference Data in ECHO. ECHO Workshop Series. September 24, 2026.

GEOG 580 – Spatial Statistics, University of New Mexico Department of Geography & Environmental Studies. March 5, 2024. Invited lecturer: Introduction to Spatial Regression Methods in Environmental Health.

Workshop: Introduction to Spatial Regression Methods in Environmental Health. 2024 Partnerships for Environmental Public Health (PEPH) Meeting. National Institute of Environmental Health Sciences (NIEHS) Headquarters, Durham, NC. February 20-21, 2024. Co-instructor.

UNM-Diné College Summer Internship 2022, National Science Foundation EPSCoR TickBase. June 15, 2022. Invited lecturer: Geospatial Data Interpretation.

GEOG 150 – World Regional Geography, University of New Mexico Department of Geography & Environmental Studies. August 30, 2019. Invited lecturer: Data Bias in Regional Development.

RESEARCH MENTORSHIP

Undergraduate Advisees

Student	Year(s)	Project
Mario Smith-Pignone	2025	Navajo WaterGIS Mobile App Development for iOS
Charles Perez	2025	Navajo WaterGIS Fuzzy Inference System Workflow
Simona Matiukaite	2023-2024	Navajo WaterGIS Mobile App Development for Android
Sharmila Khadka	2023	National Uranium Resource Evaluation (NURE) Data Visualization and Quality Evaluation
Thapa		

RESEARCH AND PRACTICE FUNDING

External Sponsored Grants and Contracts

U24OD023382 (PI: Jacobson/Catellier) 09/01/2023 – 8/31/2030 National Institutes of Health

ECHODAC (*Environmental Influences on Child Health Outcomes Data Analysis Center*).

The Cycle 2 ECHO Cohort will expand on the work done in cycle 1 by including the preconception lifestage and continuing follow-up of children and families enrolled in cycle 1. The JHU/RTI Data Analysis Center will advance ECHO research by providing state-of-the-art study designs and analyses, and by publicizing high quality, well documented ECHO data to promote informative analyses by the scientific community at large.

Role: DAC Investigator and Analyst

1P30ES032755 (PI: Lin) 06/01/2023 – 06/01/2024 National Institute of Environmental Health Sciences

Navajo WaterGIS Usability and Needs Assessment: Environmental Data Justice and

Data Bias. New Mexico Integrative Science Program Incorporating Research in Environmental Science (NM-INSPIRES) pilot project sub-award. Design a usability and needs assessment for an existing interactive web mapping application, Navajo WaterGIS. Conduct focus group-based assessment workshops with end users. Reevaluate and redesign web app based on participant feedback.

Role: Co-Investigator

ACADEMIC SERVICE

Division and/or Department:

University of New Mexico Department of Geography & Environmental Studies.
President: Student Association of Geography & Environmental Studies (SAGES) AY 2018-2019.

PRESENTATIONS *both in-person and virtual

Scientific Meetings

Beene, D., Miller, C., Gonzales, M., Kanda, D., Francis, I., Erdei, E. (2025). Poster: Understanding the role of environmental metals exposures on COVID-19 disease severity in New Mexico. 2025 New Mexico Public Health Association Annual Meeting (virtual). May 1-2, 2025.

Beene, D., Kress, A. (2025). Understanding rurality and representation: Comparing ECHO Cohort with U.S. health and demographic characteristics. *2025 American Association of Geographers Annual Meeting*. Detroit, MI. March 24-28, 2025.

Lin, Y., Giralmo, C., Woldeyohannes, T., Beene, D., Liu, Z., Hoover, J. H. (2025). Data uncertainty for environmental exposure modeling with Indigenous Communities.

- 2025 *American Association of Geographers Annual Meeting*. Detroit, MI. March 24-28, 2025.
- Beene, D.**, Woldeyohannes, T. (2024) Workshop: Introduction to Spatial Regression Methods in Environmental Health. *2024 Partnerships for Environmental Public Health (PEPH) Meeting*. National Institute of Environmental Health Sciences, Durham, NC. February 20-21, 2024.
- Woldeyohannes, T., **Beene, D.**, Doyle, J., Martin, C., Eggers, M., Liu, Z., Lin, Y., MacKenzie, D., Erdei, E., Hoover, J., (2024). Poster: Evaluating cumulative environmental exposure to metals and non-metals and community-level health using geospatial modeling and personal exposure assessment. *2024 Partnerships for Environmental Public Health (PEPH) Meeting*. National Institute of Environmental Health Sciences, Durham, NC. February 20-21, 2024.
- Beene, D.** (2023). Navajo WaterGIS 2.0: Community needs and missing data. *2023 NIEHS SRP Annual Grant Recipient Meeting*, Albuquerque, NM. December 4, 2023.
- Beene, D.**, Miller, C., Gonzalez, M., Erdei, E. (2023). Understanding the role of environmental metals on COVID-19 disease severity in New Mexico. *International Society of Exposure Science Annual Meeting*, Chicago, IL, August 27-31, 2023.
- Ingram, J., Hoover, J., **Beene, D.**, Rock, T., Credo, J., Jones, L. (2023). Collaborative water characterization of Navajo unregulated water sources and the Navajo safe water website. *American Chemical Society Fall 2023: Harnessing the Power of Data*, San Francisco, CA, and hybrid. August 13, 2023.
- Beene, D.** (2023). Deconstructing rurality to better “place” health data. *American Association of Geographers Annual Meeting*, Denver, CO. March 23-27, 2023.
- Beene, D.**, Hoover, J., Matiukaite, S., Shuey, C. (2022). Poster: Navajo WaterGIS: Harmonization and Visualization of Water Quality at Unregulated Sources. *NIEHS Superfund Research Program 35th Annual Meeting*, Raleigh, NC, December 14-16, 2022.
- Beene, D.** (2022). Deconstructing rurality to better “place” health data. *Southwest Division, American Association of Geographers Annual Meeting*, Fayetteville, AR, October 27-29, 2022.
- Beene, D.**, Hoover, J., Shuey, C. (2022). Poster: Water quality, research, and policy: Addressing household water insecurity on the Navajo Nation. *UNM College of Pharmacy Research Day*. Albuquerque, NM, April 28, 2022.
- Beene, D.**, Gonzales, M., Miller, C., Erdei, E. (2022). Environmental metals exposures and COVID-19 severity: A case study in New Mexico, USA. *American Association of Geographers Annual Meeting*, New York City (virtual), February 25, 2022.
- Woldeyohannes, T., Lin, Y., Hoover, J., **Beene, D.**, Liu, Z., Giralmo, C. (2022). Poster: Geospatial modeling of potential contamination exposure to abandoned or inactive mine sites and trash dumps on the Crow Nation. *American Association of Geographers Annual Meeting*, New York City (virtual). February 27, 2022.
- Lin, Y., **Beene, D.**, Hoover, J. (2021). Moving Native American Environmental Health Disparities Research Forward Through a Geographic Lens. *The 28th International*

- Conference on Geoinformatics CPGIS Annual Conference*, virtual conference, October 31, 2021.
- MacKenzie, D., **Beene, D.** (2021). Arsenic and birth outcomes in 3 U.S. cohorts. *2021 Bi-Annual Navajo Research Conference*, virtual conference, October 20-21, 2021.
- Beene, D.**, Zhang, S., Lippitt, C., Bogus, S.M. (2021). Performance evaluation of multiple pan-sharpening techniques on NDVI: A statistical framework. *Southwest Division, American Association of Geographers Annual Meeting*, Oklahoma City, OK, October 13-15, 2021.
- Beene, D.**, Signes-Pastor, A., Kaeli, D., MacKenzie, D., Karagas, M., Feric, Z., Halchenko, Y., Powers, M., Manjourides, J., Lewis, J., Alshawabkeh, A., Bohm Agostini, N., Watkins, D. (2020). Data Harmonization across SRP Pregnancy and Birth Cohorts. *NIEHS External Use Case Committee*, virtual meeting, February 18, 2020.
- Beene, D.**, van Geen, L., Navas-Acien, A., Nigra, A., LoIacono, N., Cardenas, A., Collender, P., Steinmaus, C., Lin, Y., Lewis, J. (2020). Arsenic Mass Balance: Integrating Environmental and Biomarker Data across Diverse Populations. *NIEHS External Use Case Committee*, virtual meeting, February 18, 2020.
- Beene, D.**, Lin, Y., Hoover, J., Erdei, E., Liu, Z. (2020). Poster: Geospatial Modeling to Map Environmental Exposure to Abandoned Uranium Mine Waste on the Navajo Nation, USA. *2020 NIH/NIEHS Superfund Research Program Virtual Online Meeting, Hosted by Texas A&M University*. URL: <https://bit.ly/3pRZZyi> December 14-16, 2020.
- Beene, D.**, Bohm Agostini, N., Halchenko, Y., Kaeli, D., Karagas, MR., Lewis, J., MacKenzie, D., Manjourides, J., Powers, M., Signes-Pastor, AJ., Watkins, D. (2020). Poster: Distributed Harmonization and Analysis Across Three SRP Cohorts. *2020 NIH/NIEHS Superfund Research Program Virtual Online Meeting, Hosted by Texas A&M University*. URL: <https://bit.ly/3pRZZyi> December 14-16, 2020.
- Roman, C., Shuey, C., Begay, D., Hoover, J., **Beene, D.**, Quetawki, M., Rahman, R., Lewis, J., Campen, M., MacKenzie, D., Gonzales, M., (2020). Poster: University of New Mexico SRP Responds to COVID-19 in Tribal Communities. *2020 NIH/NIEHS Superfund Research Program Virtual Online Meeting, Hosted by Texas A&M University*. URL: <https://bit.ly/3pRZZyi> December 14-16, 2020.
- Hoover, JH, Lin, Y., **Beene, D.**, Liu, Z., & Lewis JL. (2020). GPS Tracking Livestock to inform potential human exposure to abandoned uranium mine waste in an indigenous community in the southwestern United States. *2020 Geological Society of American Annual Meeting* (Virtual Conference), Montreal, October 26, 2020
- Beene, D.**, Fuchs, E., Rinehart, A., Lin, Y. (2020). Feedbacks of irrigator decisions, hydrologic change and long-term water planning, Mesilla Valley, NM. *NGWA Water, Energy, and Policy in a Changing Climate*. Albuquerque, NM, February 24, 2020.
- Beene, D.**, Lin, Y., Hoover, J., Liu, Z. (2019). Abandoned uranium mines in the Navajo Nation: How do we responsibly and ethically model risk? *Association of Pacific Coast Geographers Annual Meeting*. Flagstaff, AZ. October 16-19, 2019.

- Lin, Y., **Beene, D.**, Liu, Z. (2019). Uncertainties in Spatial Accessibility: A comparison of Street Network Data. *The 82nd Annual Meeting of Association of Pacific Coast Geographers*. Flagstaff, AZ. October 16-19, 2019.
- Liu, Z., Lin, Y., Hoover, J., **Beene, D.** (2019). Poster: Classifying livestock grazing behavior and GIS-modeling potential for exposure to Abandoned Uranium Mine Waste in the Cove Wash Watershed, Arizona, USA. *Southwest Division, American Association of Geographers Annual Meeting*, Fort Worth, TX, October 10-12, 2019.
- Beene, D.** (2019). Modeling irrigation and agrarian change in the Lower Rio Grande: Lessons Learned from Mixed Methods Research. *New Mexico Geographic Information Council (NMGIC) Annual Meeting*, Albuquerque, NM, April 26, 2019. *American Association of Geographers Annual Meeting*, Washington, D.C., April 3-7 2019.
- Beene, D.** (2019). Adjudication and the Adaptive Capacity of Farmers in the Lower Rio Grande. *Second Biennial Population and Public Policy Conference*, Albuquerque, NM, February 8-9 2019.
- Lin, Y., Hoover, J., Erdei, E., **Beene, D.** (2018). Poster: Novel Geospatial Modeling to Inform Risk Assessment for Metal Contamination Research on Tribal Lands, NIH P50 (Native Environmental Health Equity Research Center 2018 Pilot Project). *The 10th Conference on Metal Toxicity & Carcinogenesis*, Albuquerque, NM, October 28-31, 2018.
- Beene, D.** (2018). Complicating Water Management Binaries in the Rincon and Mesilla Valleys by Coupling Grounded Theory and Geospatial Modeling. *Southwest Division, American Association of Geographers Annual Meeting*, Baton Rouge, LA, October 4-6, 2018.
- Beene, D.** (2017). Water Use, Delivery and the River: Modeling the Effect of Irrigation on the Rio Grande's Efficiency. *UNM GIS Day*, Albuquerque, NM, November 14, 2017.

Invited Seminars

- Beene, D.** (2026). Place matters: Using area-level data in ECHO analyses. ECHO Applied Statistical Methods Independent Interest Group. April 24, 2026.
- Beene, D.** (2025). Rurality classifications in ECHO: Considerations, pitfalls, and future directions. Johns Hopkins University GIS Day Lightning Talks. Baltimore, MD, November 19, 2025.
- Beene, D.** (2025). Measuring rurality: Limits and challenges in population health studies. Marshfield Clinic Research Institute Scientific Seminar Series. Marshfield, WI, November 12, 2025.
- Beene, D.** (2024). Underserved or misunderstood? Exploring rurality through critical geospatial data science. University of New Mexico Department of Geography & Environmental Studies Colloquium. Albuquerque, NM, October 18, 2024.
- Beene, D.** (2024). Navajo WaterGIS: Environmental data poverty, visibility, and usefulness. Conference on PFAS and emerging contaminants in drinking water serving California Tribes: Opportunities for academic and community research collaborations. Santa Clara University, Santa Clara, CA. May 30, 2024

- Beene, D.** (2024). Navajo WaterGIS 2.0: Critical Geospatial Data Science & Data Sharing. *UC Berkeley Water Equity Science Shop (WESS)*, Berkeley, CA. January 12, 2024.
- Beene, D.**, Fowler, K., de Orla-Barile, M., Wu, Y., Jordan, M., Orok, H., Garousi-Nejad, I. (2023) Investigating Hydrological Responses and Shrinkage Patterns of the Great Salt Lake. I-GUIDE Forum 2023. Columbia University, New York City, NY. October 4, 2023.
- Beene, D.** (2022) GIScience as an Interdisciplinary Bridge in Indigenous Health Equity. University of Missouri Geospatial Workshop – Collaborative Funding Opportunities. Columbia, MO, May 20, 2022.
- Beene, D.** (2022) Advancing Indigenous Health Equity: GIScience & geographies of Indigenous health. UNM Team Research Symposium, Public Impact Research panel, University of New Mexico, Albuquerque, NM. April 19, 2022.
- Beene, D.** (2022) Advancing Indigenous Health Equity: GIScience & geographies of Indigenous health. Science for Health of Indigenous Populations (SHIP) Symposium. University of New Mexico, Albuquerque, NM. April 8, 2022.
- Beene, D.** (2021) Data science for Native American environmental health research. 2021 TickBase Semi-Annual Meeting (Virtual), University of Idaho, December 8, 2021.
- Lewis, J., Begay, D., Shuey, C., Luo, L., **Beene, D.** (2020). Report from UNM regarding data on COVID-19 data collection. Requested report to Health, Education, and Human Services Committee of the 24th Navajo Nation Council, teleconference, May 13, 2020.
- Lin, Y., **Beene, D.**, Lewis, J. (2020). Integrating Environmental and Biomonitoring Datasets from the UNM METALS Superfund Center. Columbia University Mailman School of Public Health Mini – Symposium, Columbia University Mailman School of Public Health, New York City, NY, February 21, 2020.
- Hoover, J., Lin, Y., **Beene, D.** (2020). Cove Livestock Project Progress Report. Navajo Nation Cove Chapter meeting, Cove Chapter, Navajo Nation, February 11, 2020.
- Lin, Y., Lewis, J., **Beene, D.**, Ong, J. (2020). Home Dust Uranium, Environmental Exposure Risk Factors, and Biomonitoring Uranium Concentration among NBCS Participants. Navajo EPA Meeting (Virtual), University of New Mexico, Albuquerque, NM, March 19, 2020.
- Lin, Y., **Beene, D.**, Hoover, J., Erdei, E. (2020). Geospatial Modeling to Inform Environmental Exposure Assessment for Metal Contamination Research on Tribal Lands. University of New Mexico Superfund Research Center Monthly Meeting (Virtual), University of New Mexico, Albuquerque, NM, April 16, 2020.